# LAND APPLICATION SITE MILL RUN FARM DWMRF 1 - 13 DINWIDDIE COUNTY

## VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

F	ORM D: MUNICIPAL EF	FLUENT AND BIOSOL	LIDS
PART D-VI: LAND APP	LICATION AGREEMENT	BIOSOLIDS AND INDU	STRIAL RESIDUALS
here as "Landowner", and _ remains in effect until it is to the Landowner in the event individual parcels identified	Recyc Systems, Inc., recommended in writing by either profession and the same of one or more parcin this agreement changes, the eive biosolids or industrial residents.	aferred to here as the "Permi party or, with respect to those els, until ownership of all paranose parcels for which owne	ttee". This agreement e parcels that are retained by rcels changes. If ownership of rship has changed will no
Landowner: The Landowner is the owner the agricultural, silvicultural attached as Exhibit A.	er of record of the real property or reclamation sites identified	y located in <u>Dinwiddie</u> below in Table 1 and identi	, Virginia, which includes fied on the tax map(s)
Table 1.: Parcels aut	horized to receive biosolids, w	vater treatment residuals or o	other industrial sludges
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
464-26			
941-56C			
Additional parcels containing Land	d Application Sites are identified on S	supplement A (check if applicable)	
In the event that the Landov within 38 months of the late	e Landowner is the sole owne e Landowner is one of multiple wner sells or transfers all or pa est date of biosolids application or transferee of the applicab	e owners of the properties id art of the property to which b n, the Landowner shall:	lentified herein. piosolids have been applied
later than the date of	of the property transfer; and e of the sale within two weeks		
notify the Permittee immedi	er agreements for land applica ately if conditions change suc f this agreement becomes inv	h that the fields are no longe	er available to the Permittee
agricultural sites identified a inspections on the land ider	nts permission to the Permitte above and in Exhibit A. The L ntified above, before, during of apliance with regulatory requir	andowner also grants permi r after land application of pe ements applicable to such a	ssion for DEQ staff to conduct rmitted residuals for the application.
Class B biosolids Water  ☑ Yes ☐ No ☑ Yes			<u>her industrial sludges</u> Yes □ No
Bonni S. The Landowner – Printed Name, Title	Signature		775 Adams Rd. Chase Cling Address & Phone Number Uk. 3
manner authorized by the VPA	Permittee, agrees to apply biosol Permit Régulation and in amour plication field by a person certifie	ids and/or industrial residuals onts not to exceed the rates iden	on the Landowner's land in the tified in the nutrient management
The Permittee agrees to notify specifically prior to any particul	the Landowner or the Landowne ar application to the Landowner's	r's designee of the proposed so s land. Notice shall include the	chedule for land application and source of residuals to be applied
☐ I reviewed the document(s) document(s) available to DEQ	assigning signatory authority to t for review upon request. (Do not	he person signing for landowne check this box if the landowner sig	er above. I will make a copy of this ns this agreement)

Permittee – Authorized Representative Printed Name PO Box 562 Remington, Virginia 22734

Mailing Address

Signature

#### VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee: Recyc Systems, Inc County or City: Dinwidd; e
Landowner: Bonnie S. Thompson
Landowner Site Management Requirements:
I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.
I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.
I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:
<ol> <li>Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.</li> </ol>
<ul> <li>2. Public Access</li> <li>a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.</li> <li>b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;</li> <li>c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.</li> </ul>
<ul> <li>3. Crop Restrictions: <ul> <li>a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.</li> <li>b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,</li> <li>c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation,</li> <li>d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;</li> <li>e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).</li> </ul> </li> </ul>
<ul> <li>Livestock Access Restrictions:</li> <li>Following biosolids application to pasture or hayland sites:</li> <li>a. Meat producing livestock shall not be grazed for 30 days,</li> <li>b. Lactating dairy animals shall not be grazed for a minimum of 60 days,</li> <li>c. Other animals shall be restricted from grazing for 30 days;</li> </ul>
<ol> <li>Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;</li> </ol>
Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).
Landowner's Signature 9/2/2015  Date
Bannie S. Thry 775 Adams Rd. Chase City Mailing Address & Phone Number Va. 23924 434-312-2299

Page 2 of 2

## VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS MILL Run Farm

				A A C C C C C C C C C C C C C C C C C C
PART D-VI: LAND APPL	ICATION AGREEM	ENT - BIOSOLIDS AN	D INDUSTRIA	L RESIDUALS
A. This land application agre here as "Landowner", and Reuntil it is terminated in writing the event of a sale of one or identified in this agreement creceive biosolids or industrial	ecyc Systems, Inc, refe by either party or, with more parcels, until own hanges, those parcels	rred to here as the "Perm respect to those parcels nership of all parcels char for which ownership has	that are retainenges. If owners	eement remains in effect ed by the Landowner in hip of individual parcels
Landowner: The Landowner is the owner agricultural, silvicultural or redocumentation identifying ow	clamation sites identifie	ed below in Table 1 and i	ധ <u>പ്പിം</u> , Vir dentified on the	ginia, which includes the tax map(s) with county
Table 1.: Parcels auti	horized to receive bios	olids, water treatment res	iduals or other i	ndustrial sludges
Tax Parcel ID	Tax Parcel ID	Tax Parce	el ID	Tax Parcel ID
84-26				
841-26A				
☐ Additional parcels containing	Land Application Sites are	dentified on Supplement A (che	eck if applicable)	
In the event that the Landown within 38 months of the latest 1. Notify the purchaser than the date of the p. 2. Notify the Permittee of the Landowner has no other notify the Permittee immediate application or any part of this. The Landowner hereby grant agricultural sites identified abinspections on the land identification purpose of determining comp.	ndowner is one of multi- ner sells or transfers all date of biosolids appli- or transferee of the ap- property transfer; and of the sale within two wards agreements for land a rely if conditions chang agreement becomes in selection of the Perove and in Exhibit A. If fied above, before, dur	cation, the Landowner sholicable public access an reeks following property the pplication on the fields ide such that the fields are notated or the information of the Landowner also graning or after land applications.	ties identified her which biosolids hall: d crop manager ransfer. entified herein. no longer availa herein contained duals as specifie tis permission fo on of permitted o such applicati	The Landowner will able to the Permittee for d becomes incorrect. ed below, on the or DEQ staff to conduct residuals for the
Printed name  ECIN F. POIN  By:  Title*  * I certify that I have authority t  * I certify that I am a responsible proprietorship, LLC, municipality, s	Phone No. 2 - o sign for the landowner as e official [or officer] author	50368  2015, TN. 416250  213 - 2969  indicated by my title as executed to act on behalf of the following the solution of the solution of the following the solution of the sol	itor, Trustee or Pov	There of attorney, etc.
Permittee: Recyc Systems, Inc., the Permit Reprepared for each land application. The Permittee agrees to notify the specifically prior to any particular.	egulation and in amounts in field by a person certifi e Landowner or the Land application to the Lando	not to exceed the rates ider ed in accordance with §10. lowner's designee of the pro wner's land. Notice shall in	ntified in the nutrie 1-104.2 of the Coo oposed schedule clude the source	ent management plan de of Virginia. for land application and of residuals to be applied.
Printed name Susan Trumbo	Mailing Ad	idress 2. Remington Virginia 22734	Signature Aut	horized Representative

Phone No. 540-547-3300

Technical Manager

Title

Permittee:	Recyc System	ıs, Inc	County or City:	Dinuidalie
Landowne	r: Ein F. Ban			
Landowne	r Site Management Req	uirements:		
I, the Landov land applicat	vner, I have received a DEC ion of biosolids, the compor	Q Biosolids Fact S nents of biosolids	heet that includes info and proper handling a	rmation regarding regulations governing the nd land application of biosolids.
identified belo	een expressly advised by the ow must be complied with a ponsible for the implementa	ifter biosolids have	e been applied on my	requirements and site access restrictions property in order to protect public health, and
l agree to imp of biosolids a	plement the following site matthe	anagement practi	ces at each site under	r my ownership following the land application
biosoli	ation Signs: I will not remo ids land application site, unl completed.	ve any signs poste less requested by	ed by the Permittee fo the Permittee, until at	r the purpose of identifying my field as a least 30 days after land application at that
	following any application Public access to land wit any application of biosoli	of biosolids. h a low potential f ds. No biosolids a	or public exposure shamended soil shall be	nall be restricted for at least one year all be restricted for at least 30 days following excavated or removed from the site during o prevent public exposure to soil, dusts or
C.	aerosols; Turf grown on land wher	e biosolids are ap	olied shall not be harv	ested for one year after application of high potential for public exposure or a lawn,
3. Crop R a. b. c. d. e.	Food crops with harvested shall not be harvested fo Food crops with harvested application of biosolids with months prior to incorporate Food crops with harvested biosolids remain on the late of their food crops and fibe	r 14 months after ed parts below the when the biosolids ation into the soil, ed parts below the and surface for a the er crops shall not lessed.	the application of bios surface of the land shad shad on the land su surface of the land shad shad shad shad shad shad shad sha	ture and are totally above the land surface olids.  nall not be harvested for 20 months after the oliface for a time period of four (4) or more nall not be harvested for 38 months when the n four (4) months prior to incorporation. The ays after the application of biosolids; on of biosolids (60 days if fed to lactating
	ick Access Restrictions: illowing biosolids applicatio Meat producing livestock Lactating dairy animals s Other animals shall be re	shall not be grazed hall not be grazed	ed for 30 days, for a minimum of 60	days.
residua	ils applications such that th	e total crop needs	for nutrients are not e	ated with the biosolids and industrial exceeded as identified in the nutrient 0.1-104.2 of the Code of Virginia;
years fo		piosolids or indust		t be grown on the Landowner's land for three ear cadmium equal to or exceeding 0.45
Tin	Than			8.17.18
Lande	wner's Signature	775 A Chase (	ldams Rd- Citylua. 239.	Date
Bom	This	434-3	72-2259	8//9/20/8
Operat	or's Signature	mailing add	ess & phone	Date /

#### VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

#### **Landowner Coordination Form**

This form is used by the Permittee to identify properties (tax parcels) that are authorized to receive biosolids and/or industrial residuals, and each of the legal landowners of those tax parcels. A Land Application Agreement-Biosolids and Industrial Residuals from original signature must be attached for each legal landowner identified below prior to land application at the identified parcels.

Permittee:

Recyc Systems, Inc.

Site Name:

Mill Run Farm

County or City:

**Dinwiddie County** 

Please Print

Signature not required on this page

riedse riiiit	Signature not required on this page
Tax Parcel ID(s)	Landowners (s)
84-26	Bonnie Sue Bain Thompson & Erin Bain C/O Erin Bain
84-26A	Erin F. Bain
84-26C	Bonnie Sue Bain (Thompson)
	4

## **FARM DATA SHEET**

SITE NAME:	Mill Run Farm	COUNTY:	Dinwiddie
OWNER:	Bonnie Sue Thompson and Erin F. Bain	OPERATOR:	Bonnie Sue Thompson (Chip Walker works for Bonnie Sue)
OWNER'S	See List Below	OPERATOR'S	775 Adams Road
ADDRESS:		ADDRESS:	Chase City, VA 23924
OWNER'S TELEPHONE:	See List Below	OPERATOR'S TELEPHONE:	434-372-2299 (Bonnie)
GENERAL FARM TYPE:	Row Crop/Pasture/Hay	CELL PHONE:	804-731-4482 (Chip cell)
# CATTLE:	50	EMAIL:	-
LAGOON or SLURRY:	None	LATITUDE:	36.963
TOPO QUAD:	Cherry Hill	LONGITUDE:	-77.526
COMMENTS:		METHOD OF DETERMINATION:	Online Maps
Bonnie Su	e Thompson	Erin F. E	Bain
	ams Road	P.O. Box 5	50368
Chase Cit	y, VA 23924	Indianapolis,	IN 46250
	72-2299	252-213-	
	i)		
			AB/BB %

# FIELD CHANGES MILL RUN FARM DINWIDDIE COUNTY

**NEW FIELD 1 IS OLD FIELD 1.** 

**NEW FIELD 2 IS PART OF OLD FIELD 2.** 

**NEW FIELD 3 IS OLD FIELD 3.** 

**NEW FIELD 4 IS PART OF OLD FIELD 2.** 

**NEW FIELD 5 IS OLD FIELD 4.** 

**NEW FIELD 6 IS OLD FIELD 6.** 

**NEW FIELD 7 IS OLD FIELD 5.** 

**NEW FIELD 8 IS PART OF OLD FIELD 7.** 

**NEW FIELD 9 IS OLD FIELD 8.** 

**NEW FIELD 10 IS PART OF OLD FIELD 7.** 

**NEW FIELD 11 IS PART OF OLD FIELD 7 AND 10.** 

**NEW FIELD 12 IS PART OF OLD FIELD 10.** 

**NEW FIELD 13 IS OLD FIELD 9.** 

## RECYC SYSTEMS, INC FIELD DATA SHEET

Field	Gross	Environn	nentally S	ensitive	Soils		Tax	FSA
			Bed Rock/	Surf/		Hydro		
Identification	Acres	Water Table	Shallow	Leach	Freq Flood	Мар	Map #	Tract #
								T 8
DWMRF 1	5.1	12B DecMar.	-	140	728	CU 24	84-26	F 6
								T 8
DWMRF 2	8.2	12B DecMar.	-	-		CU 24	84-26	F 1
								T 8
DWMRF 3	13.8	12B DecMar.				CU 24	84-26	F 18, 20
								T 8
DWMRF 4N	6	12B DecMar,	~	-	<u>\$</u>	CU 24	84-26	F 21
								T 8
DWMRF 5N	5.3	12B DecMar.	*	.#0	1 <b>2</b> 00	CU 24	84-26	F 17, 19
								T 8
DWMRF 6	20.1	12B DecMar.			: <del>=</del> %	CU 24	84-26	F 9, 23
					i i			T 8
DWMRF 7N	14.5	12B DecMar.	3	-	JÆV	CU 24	84-26	F 7, 22
		9B JanApril						T 8
DWMRF 8N	3	12B DecMar.	2	<b>2</b> 0	<b>=</b> {	CU 23	84-26	F 10
		12B DecMar.					84-26	T 8
DWMRF 9N	7.7	16A NovMay		=:	-	CU 23	84-26C	F 12, 13
		9B Jan-April					84-26	Т 8
DWMRF 10N	10.6	12B Dec-Mar	=		<del>, -</del> 0	CU23	84-24A	F 11, 27
		9B Jan-April					J t	1, 21
		12B Dec-Mar					84-26	Т 8
DWMRF 11	7.7	16A Nov-May	(A)	₩7.	<b>≅</b> 0	CU23	84-26C	F 27

Field	Gross	Environr	nentally Se	ensitive	Soils		Tax	FSA
Identification	Acres	Water Table	Bed Rock/ Shallow			Hydro Map	Map#	Tract #
DWMRF 12	10.1	9B Jan-April 16A Nov-May	=	-		CU23	84-26	T 8 F 27
DWMRF 13	7.9	9B Jan-May	9	2	E.	CU23	84-26	T 8 F 16
TOTAL ACRES IN SITE	120.0							

3-3-21

Report Number: 20-211-0637

Send To: Recyc Systems Inc.

Susan Trumbo

8455 Whiteshop Road

Culpepper VA 22701

Account Number: 70594

ANALYTICAL

7621 Whitepine Road, Richmond, VA 23237 Main 804-743-9401 ° Fax 804-271-6446 www.waypointanalytical.com

"Every acre... Every year." TM

Grower: Mill Run Farm Dinwiddie

**SOIL ANALYSIS REPORT** 

Analytical Method(s):

SMP Buffer pH Mehlich 3

Loss On Ignition Water pH

Date Received: 07/29/2020

Date Of Analysis: 07/30/2020

Date Of Report: 07/30/2020

Sample ID	Lab	OM	W/V	ENR		Phosphorus		Potassium	Magnesium	Calcium	Sodium	р	Н	Acidity	C.E.C
Field ID Number	% Rate	Soil Class	Ibs/A	M3 <sub>ppm</sub> Rate	ppm Rate	ppm Rate	K ppm Rate	Mg ppm Rate	Ca ppm Rate	Na ppm Rate	Soil pH	Buffer Index	H meq/100g	meq/100g	
DWMRF- <b>∦</b> ¬	05750	3.0 M		101	131 VH			44 VL	78 M	885 H		6.0	6.84	0,9	6.1
DWMRF-# 9	05751	2.6 M		91	139 VH			33 VL	84 L	1224 H		6.2	6.83	1.0	7.9
DWMRF-18	05752	3.0 M		102	128 VH			22 VL	60 L	871 H		6.1	6.85	0.8	5.7

0 . 1.15		Perce	nt Base	Saturati	on	Nitrate	Sulfur	Zir	10	Manga	nese	Iron	Copper	Boron	Soluble Salts	
Sample ID Field ID	K %	Mg %	Ca %	Na %	H %	NO <sub>3</sub> N ppm Rate	S ppm Rate	Zı ppm	-	Mı ppm		Fe ppm Rate	Cu ppm Rate	B ppm Rate	SS ms/cm Rate	
DWMRF-6	1.8	10.7	72.5		14.8			5.3	Н	10	М					
WMRF- 9	1.1	8.9	77.5		12.7			8.6	VH	11	М					
DWMRF-19	1.0	8.8	76.4		14.0			6.7	Н	8	L					
11.12																

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High), ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meg/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by: Waypoint Analytical Virginia, Inc.

Pauric McGroary

rage 2 of 2

Report Number: 20-211-0637

Account Number: 70594

Send To: Recyc Systems Inc

Susan Trumbo

8455 Whiteshop Road Culpepper VA 22701



7621 Whitepine Road, Richmond, VA 23237 Main 804-743-9401 ° Fax 804-271-6446 www.waypointanalytical.com

"Every acre... Every year." TM

Grower: Mill Run Farm Dinwiddie

Date Received: 07/29/2020

Date Of Report: 07/30/2020

#### SOIL FERTILITY RECOMMENDATIONS

	Date Of Report. 07/30/2020			X 1 11 1	I VEO O I VIII VI	LINDAIN	J143						
Sample ID Field ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N Ib/A	Phosphate P <sub>2</sub> O <sub>5</sub> Ib/A	Potash K <sub>2</sub> O Ib/A	Magnesium Mg Ib/A	Sulfur S Ib/A	Zinc Zn lb/A	Manganese Mn Ib/A	iron Fe Ib/A	Copper Cu Ib/A	Boron B Ib/A
DWMRF- <b>%</b>	Adjust pH to 6.8	0	1.3				0			2			
DWMRF-8	Adjust pH to 6.8	0	1,3				0			2			
DWMRF-10 II.12	Adjust pH to 6.8	0	1.3				9			3			

#### Comments:

"The recommendations are based on research data and experience, but NO GUARANTEE or WARRANTY expressed or implied, concerning crop performance is made."

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auric Mc George

Pauric McGroary

Page 1 of 1

Report Number: 18-226-0644

Send To: Recyc Systems Inc.

Susan Trumbo

8455 Whiteshop Road

Culpepper VA 22701

**Account Number: 70594** 

7621 Whitepine Road, Richmond, VA 23237 Main 804-743-9401 ° Fax 804-271-6446 www.waypointanalytical.com

"Every acre...Every year."™

Grower: Mill Run Farm Dinwiddie

SOIL ANALYSIS REPORT

Analytical Method(s):

SMP Buffer pH

Mehlich 3 Loss On Ignition Water pH

Date Received: 08/14/2018

Date Of Analysis: 08/15/2018

Date Of Report: 08/16/2018

Sample ID	1	ОМ	W/V	ENR		Phosphorus		Potassium	Magnesium	Calcium	Sodium	F	Н	Acidity	C.E.C
Sample ID Field ID	Lab Number	% Rate	Soil Class	lbs/A	M3 <sub>ppm</sub> Rate	ppm Rate	ppm Rate	K ppm Rate	Mg ppm Rate	Ca ppm Rate	Na ppm Rate	Soil pH	Buffer Index	H meq/100g	meq/100g
DWMRF4 8, 10	20478	3.0 M		102	104 VH			111 M	124 H	814 M		6.4	6.88	0.5	5.9

0IID		Perce	nt Base	Saturati	on	Nitrate	Sulfur	Zir	nc	Manga	nese	Iron	Copper	Boron	Soluble Salts	
Sample ID Field ID	к	Mg	Ca	Na	Н	NO <sub>3</sub> N	S	Zı	n	Mr	1	Fe	Cu	В	SS	
	%	%	%	%	%	ppm Rate	ppm Rate	ppm	Rate	ppm	Rate	ppm Rate	ppm Rate	ppm Rate	ms/cm Rate	
DWMRF-	4.8	17.5	69.0		8.5			6.1	Н	35	Н					
8.10																

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meg/100g (milli-equivalent per 100 grams), Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by: Waypoint Analytical Virginia, Inc.

by: Paurie Mª George

Pauric McGroary

Date Received: 08/14/2018

Date Of Report: 08/16/2018

#### SOIL FERTILITY RECOMMENDATIONS

Sample ID Field ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N lb/A	Phosphate P <sub>2</sub> O <sub>5</sub> Ib/A	Potash K₂O Ib/A	Magnesium Mg Ib/A	Sulfur S Ib/A	Zinc Zn Ib/A	Manganese Mn lb/A	Iron Fe Ib/A	Copper Cu Ib/A	Boron B Ib/A
DWMRF/ 8.10	Adjust pH to 6.8	0	1.0				0			0			

#### Comments:

"The recommendations are based on research data and experience, but NO GUARANTEE or WARRANTY expressed or implied, concerning crop performance is made."

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#### THE PLANNER IS NOT STATE CERTIFIED

#### Nutrient Management Plan Balance Sheet (Fall, 2020-Winter, 2022) Mill Run Farm Planner: John Doe

Tract: 8 Location: Dinwiddie

(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes
6/DWMRF 1(N)	5/5	2020 2021	Wheat (grain)	100-60-60	0/0				100-60-60	N/A		
1/DWMRF 2(N)	8/8	2020	Grass Pasture	50-80-80	0/0				50-80-80	N/A		
18, 20/DWMRF 3(N)	14/14	2020	Wheat (grain)	100-60-60	0/0				100-60-60	N/A		
		2021										
21/DWMRF 4(N)	6/6	2020	Grass Pasture	50-80-80	0/0				50-80-80	N/A		
17, 19/DWMRF 5(N)	5/5	2020	Grass Pasture	50-80-80	0/0				50-80-80	N/A		
9, 23/DWMRF 6(N)	20/20	2020	Wheat (grain)	100-60-60	0/0				100-60-60	N/A		
7. 10		2021					*					
7, 22/DWMRF 7(N)	15/15	2020	Hay/Pasture	120-80-170	0/0				120-80-170	N/A		
10/DWMRF 8(N)	3/3	2020	Grass Pasture	50-80-80	0/0				50-80-80	N/A		
12, 13/DWMRF 9(N)	8/8	2020	Grass Pasture	50-30-40	0/0				50-30-40	N/A		
11, 27/DWMRF 10(N)	11/11	2020	Grass Pasture	50-30-40	0/0				50-30-40	N/A		
127/DWMRF 11(N)	8/8	2020	Grass Pasture	0-0-0	0/0				0-0-0	N/A		
27/DWMRF 12(N)	10/10	2020	Grass Pasture	0-0-0	0/0				0-0-0	N/A		
16/DWMRF 13(N)	8/8	2020	Wheat (grain)	100-60-60	0/0				100-60-60	N/A		
		2021	117 117 111									

**Commercial Application Methods:** 

br - Broadcast ba - Banded sd - Sidedress

Notes:

#### Soil Test Summary

Tract	Field	Acre	Date	P2O5	K20	Lab	Soil pH	Lime Date	rec. lime tons/Ac
8	DWMRF 1	5	[No					1,	10000000
			Test]						
8	DWMRF 2	8	[No						
_			Test]						
8	DWMRF 3	14	[No						
_		_	Test]						
8	DWMRF 4	6	[No						
0	DIAMADE E	_	Test]			*			
8	DWMRF 5	5	[No						
8	DWMRF 6	20	Test] [No						
O	DANIMILLO	20	Test]						
8	DWMRF 7	15	[No						
J	Diviniti 7	10	Test]						
8	DWMRF 8	3	[No						
-		_	Test]						
8	DWMRF 9	8	[No						
			Test]						
8	DWMRF 10	11	[No						
			Test]						
8	DWMRF 11	8	[No						
			Test]						
8	DWMRF 12	10	[No						
_	D14/4DE 46	•	Test]						
8	DWMRF 13	8	[No						
			Test]						

#### Field Productivities for Major Crops

Tract Name	Tract/ Field	Field Name	Acres	Predominant Soil Series	Corn	Small Grain	Alfalfa	Grass Hay	Environmental Warnings
8	8/6	DWMRF 1	5	Mattaponi	Illa	il .	<u> </u>		
	8/1	DWMRF 2	8	Mattaponi	Illa	Ш	Ш	II	
	8/18, 20	DWMRF 3	14	Mattaponi	Illa	H	Ш	Ш	
	8/21	DWMRF 4	6	Mattaponi	Illa	Ш	Ш	II	
	8/17, 19	DWMRF 5	5	Mattaponi	Illa	П	Ш	II	
	8/9, 23	DWMRF 6	20	Emporia	Illa	11	Ш	II	
	8/7, 22	DWMRF 7	15	Mattaponi	Illa	П	Ш	II	
	8/10	DWMRF 8	3	Mattaponi	Illa	Ш	Ш	Ш	
	8/12, 13	DWMRF 9	8	Mattaponi	IVa	IV	Ш	IV	
	8/11, 27	DWMRF 10	11	Mattaponi	IVa	111	Ш	111	
	8/127	DWMRF 11	8	Roanoke	IVb	V	Not	Not	
							Suited	Suited	
	8/27	DWMRF 12	10	Roanoke	IVb	IV	Not	IV	
							Suited		
	8/16	DWMRF 13	8	Emporia	IVa	Ш	Ш	III	

#### Yield Range

Field Productivity Group	Corn Grain Bu/Acre	Barley/Intensive Wheat Bu/Acre	Std. Wheat Bu/Acre	Alfalfa Tons/Acre	Grass/Hay Tons/Acre
l	>170	>80	>64	>6	>4.0
II	150-170	70-80	56-64	4-6	3.5-4.0
111	130-150	60-70	48-56	<4	3.0-3.5
IV	100-130	50-60	40-48	NA	<3.0
V	<100	<50	<40	NA	NA

#### **Farm Summary Report**

Plan:

**New Plan** 

Fall, 2020 - Winter, 2022

Farm Name:

Mill Run Farm

Location:

Dinwiddie

Specialist:

John Doe

N-based Acres: 120.0

P-based Acres: 0.0

Tract Name: 8

FSA Number: 8

Location:

Dinwiddie

Field Name:

**DWMRF 1** 

Total Acres:

5.10 Usable Acres: 5.10

FSA Number:

6 8

В

Tract: Location:

Dinwiddie

Slope Class:

Hydrologic Group:

С

Riparian buffer width: 0 ft Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE

PH

Ρ

Κ

Lab

[NO TEST]

Soils:

**PERCENT** 

**SYMBOL** 

SOIL SERIES

100

12B Mattaponi

Field Warnings:

Field Name: **DWMRF 2** 

8.20 Usable Acres: 8.20 Total Acres:

FSA Number: 1 Tract: 8

Location:

Dinwiddie

Slope Class: В Hydrologic Group:

Riparian buffer width: 0 ft Distance to stream: 0 ft

#### **Conservation Practices:**

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

PH Ρ Κ DATE Lab [NO TEST]

Soils:

PERCENT **SYMBOL SOIL SERIES** 

93 12B Mattaponi Appling 7 2B

Field Warnings:

Field Name: **DWMRF 3** 

Total Acres: 13.80 Usable Acres: 13.80

FSA Number: 18, 20

Tract: 8

Dinwiddie Location:

Slope Class: Hydrologic Group: С В

Riparian buffer width: 0 ft

Distance to stream: 0 ft P-Index Summary N-based Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method Soil Test Results: DATE Ρ Κ PH Lab [NO TEST] Soils: **PERCENT SOIL SERIES** SYMBOL 2B 12 Appling 68 12B Mattaponi 20 Emporia 5A Field Warnings: Field Name: **DWMRF 4** Total Acres: 6.00 Usable Acres: 6.00 FSA Number: 21 Tract: 8 Dinwiddie Location: Slope Class: Hydrologic Group: В C Riparian buffer width: 0 ft Distance to stream: 0 ft Conservation Practices: Pasture (>75% cover) P-Index Summary N-based Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method Soil Test Results: DATE PH Р Κ Lab [NO TEST]

Soils:

PERCENT SYMBOL SOIL SERIES

9 2B Appling 91 12B Mattaponi

Field Warnings:

Field Name: DWMRF 5

Total Acres: 5.30 Usable Acres: 5.30

FSA Number: 17, 19 Tract: 8

Location:

Dinwiddie

Slope Class: B Hydrologic Group:

С

Riparian buffer width: 0 ft Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE PH P K Lab

[NO TEST]

Soils:

PERCENT SYMBOL SOIL SERIES

9 2B Appling 20 5A Emporia 71 12B Mattaponi

Field Warnings:

Field Name:

**DWMRF 6** 

Total Acres:

20.10 Usable Acres: 20.10

FSA Number: Tract:

9, 23 8

Α

Location:

Dinwiddie

Slope Class:

Hydrologic Group:

С

Riparian buffer width: 0 ft Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE

PΗ Р Κ

Lab

[NO TEST]

Soils:

PERCENT

**SYMBOL** 

**SOIL SERIES** 

40

Mattaponi 12B

60

5A Emporia

Field Warnings:

Field Name:

**DWMRF 7** 

Total Acres:

14.50 Usable Acres: 14.50

FSA Number: 7, 22

Tract:

8

В

Location:

Dinwiddie

Slope Class:

Hydrologic Group:

С

Riparian buffer width: 0 ft Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary N-based Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method Soil Test Results: DATE PΗ Ρ Κ Lab [NO TEST] Soils: **PERCENT** SYMBOL **SOIL SERIES** 2B **Appling** 7 2C 9 **Appling** Mattaponi 84 12B Field Warnings: Field Name: **DWMRF 8** Total Acres: Usable Acres: 3.00 3.00 FSA Number: 10 Tract: 8 Location: Dinwiddie Slope Class: В Hydrologic Group: Riparian buffer width: 0 ft Distance to stream: 0 ft Conservation Practices: Pasture (>75% cover) P-Index Summary N-based Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method Soil Test Results: DATE PH Р Κ Lab [NO TEST]

Soils:

**PERCENT SYMBOL SOIL SERIES** 

93 12B Mattaponi Helena 7 9B

Field Warnings:

Field Name: **DWMRF 9** 

Total Acres: Usable Acres: 7,70 7.70

FSA Number: 12, 13 Tract: 8

Location: Dinwiddie

Slope Class: В Hydrologic Group: С

Riparian buffer width: 0 ft Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

Κ DATE PH Р Lab

[NO TEST]

Soils:

**PERCENT** SYMBOL SOIL SERIES

Emporia 14 5A Mattaponi 45 12B 41 Roanoke 16A

Field Warnings:

Field Name: **DWMRF 10**  Total Acres: 10.60 Usable Acres: 10.60

FSA Number: 11, 27 Tract: 8

Location:

Dinwiddie

Slope Class: B Hydrologic Group: C

Riparian buffer width: 0 ft Distance to stream: 0 ft

#### Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE PH P K
[NO TEST]

Lab

\_

Soils:

PERCENT SYMBOL SOIL SERIES

74 12B Mattaponi 26 9B Helena

Field Warnings:

Field Name: DWMRF 11

Total Acres: 7.70 Usable Acres: 7.70

FSA Number: 127 Tract: 8

Location: Dinwiddie

Slope Class: A Hydrologic Group: C

Riparian buffer width: 0 ft Distance to stream: 0 ft

#### Conservation Practices: Pasture (>75% cover) P-Index Summary N-based Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method Soil Test Results: Ρ Κ DATE PH Lab [NO TEST] Soils: PERCENT **SOIL SERIES** SYMBOL 2 9B Helena 18 12B Mattaponi 80 16A Roanoke Field Warnings: Field Name: **DWMRF 12** Total Acres: 10.10 Usable Acres: 10.10 FSA Number: 27 Tract: 8 Dinwiddie Location: Slope Class: Hydrologic Group: Riparian buffer width: 0 ft Distance to stream: 0 ft Conservation Practices: Pasture (>75% cover) P-Index Summary N-based Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method Soil Test Results:

Κ

Lab

DATE

PH

Ρ

#### [NO TEST]

Soils:

PERCENT SYMBOL SOIL SERIES

70 16A Roanoke 30 5A Emporia

#### Field Warnings:

Field Name:

**DWMRF 13** 

Total Acres:

7.90 Usable Acres: 7.90

FSA Number: 16

Oddbie 7 tores.

Tract:

8

Location:

Dinwiddie

Slope Class: A

Hydrologic Group:

С

Riparian buffer width: 0 ft Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE ' PH

Κ

Lab

[NO TEST]

Soils:

PERCENT SYMBOL SOIL SERIES

74 5A Emporia
 16 9B Helena
 10 16A Roanoke

Ρ

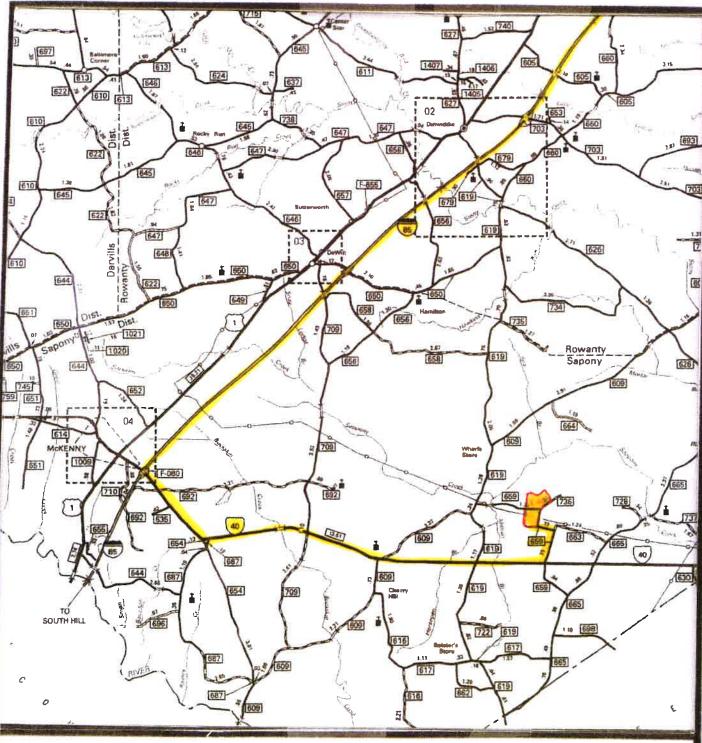
#### Field Warnings:

## MAPS

## Recyc Systems Inc.

(Biosolids Land Application)





Scale: 1 inch = 2 miles

**DWMRF 1-13** 

8-10-20 Truch Proute

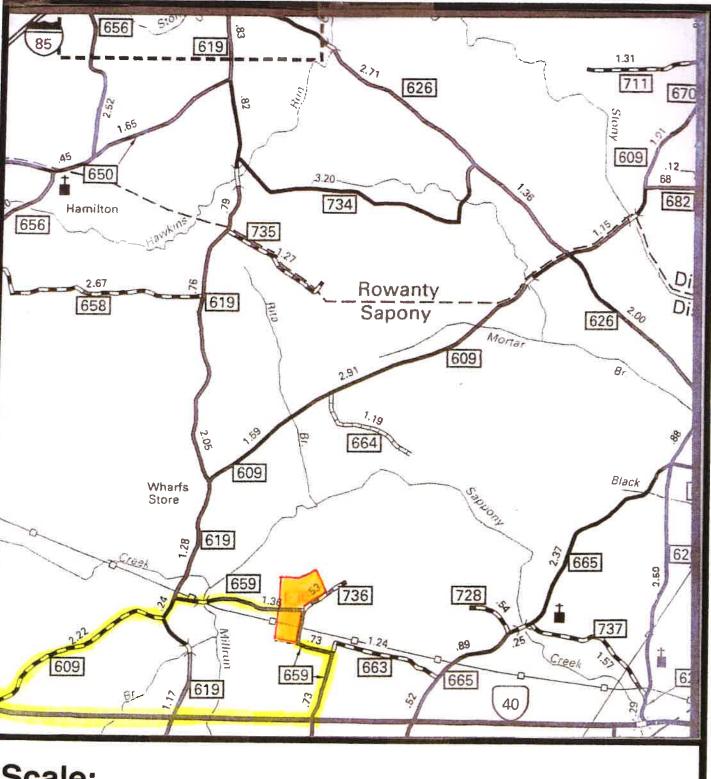
**VICINITY MAP** 

N

## Recyc Systems.

(Biosolids Land Application)





Scale:

1 inch = 1 mile

**DWMRF 1-13** 

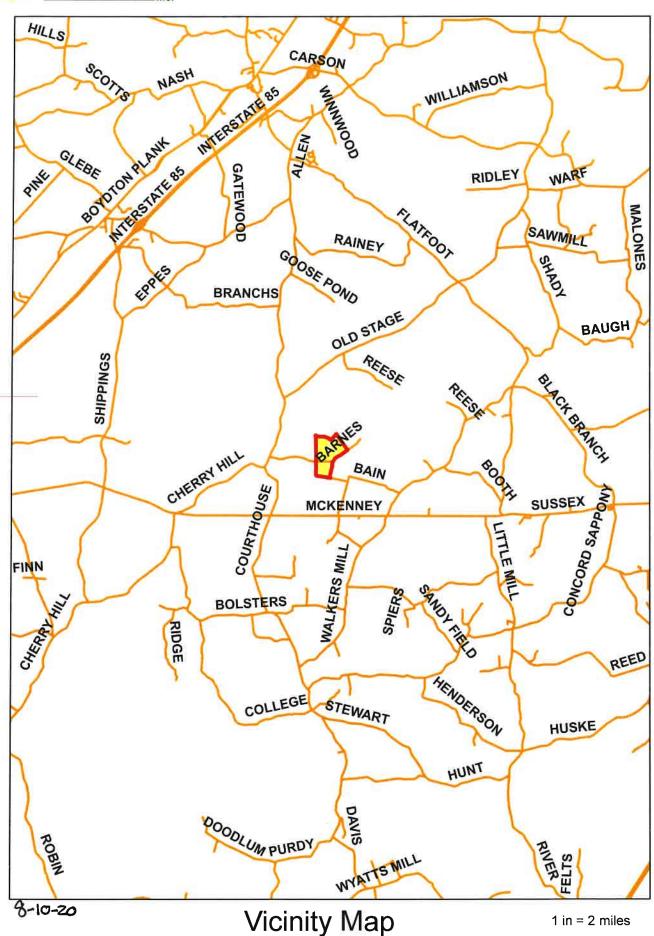
8-10-20

Truch moute VICINITY MAP



Mill Run Farm

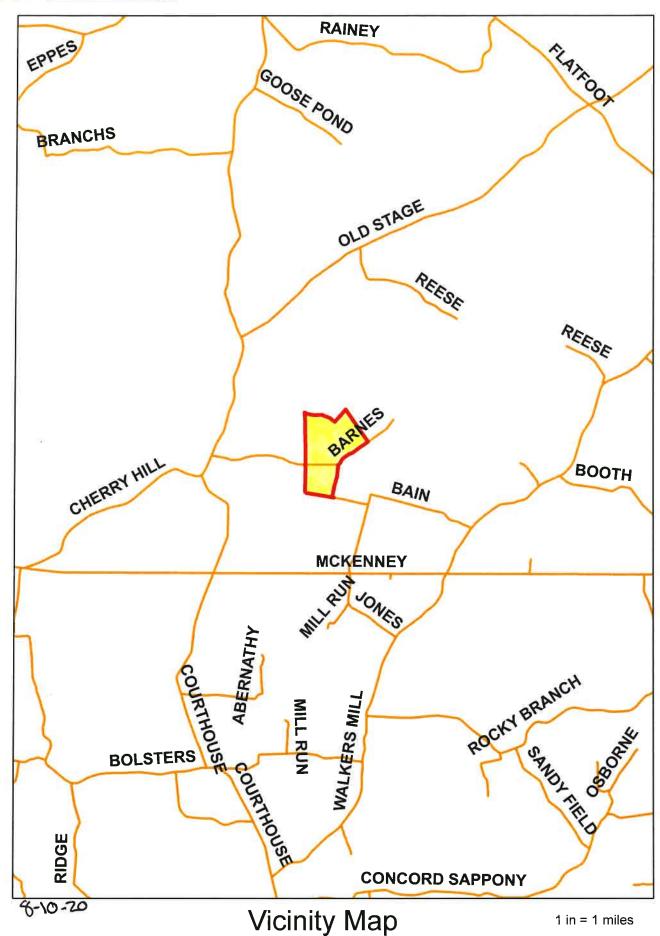
**DWMRF** 

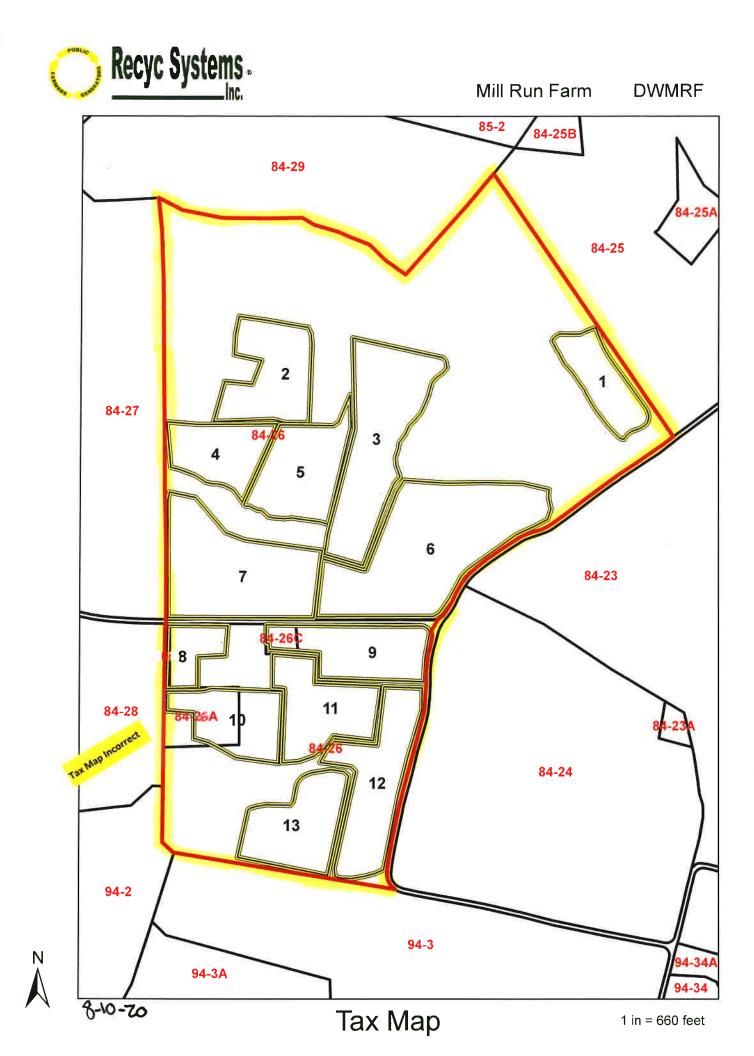




Mill Run Farm

**DWMRF** 





Online, Dinwiddie County has tax map parcel 84-26A incorrectly labeled as 84-25A: The property cards show the correct owner as Erin F. Bain and included this plat for Parcel 84-26A. (See property card)

JUL 1 1 1977

#### **Property Identification Card**

**Record Number: 348** 

#### **DINWIDDIE COUNTY**

Property Information (Map: 84 26A)

Owner:

Legal Description(s):

BAIN ERIN F

RT 659

Owner Address:

DB-185/305

PO BOX 50368

84-26A

INDIANAPOLIS, IN 46250

Zoned: A2

Total Land Area:

5.00 Acres

**Prior Assessment:** 

\$264,300

Property Address:

19605 BAIN RD

DINWIDDIE, VA 23841

Magisterial District:

**SAPONY** 

Will Bk/Pg (Instrument):

2018 / 1(18 0000001)

Remarks:

POND ON SITE +20%

Assessment Values (Map: 84 26A)

**Building 1:** 

\$207,260

Land Value:

\$33,600

Other Improvements:

\$45,240

Total Value:

\$286,100

Acreage Description (Map: 84 26A)

Size In Acres:

1.00

**Description:** 

Homesite

**Lump Sum or Per Acre:** 

Adjustment Percentage:

Lump Sum

Unit Value:

0.20

**Utility Value:** 

21,600

Othity value:

\$21,600

Acreage Value:

\_\_\_\_\_

Size In Acres:

4.00

Description:

Lump Sum or Per Acre:

Per Acre

Unit Value:

Adjustment Percentage:

0.00

Utility Value:

3,000

Acreage Value:

\$12,000

**Total Value:** 

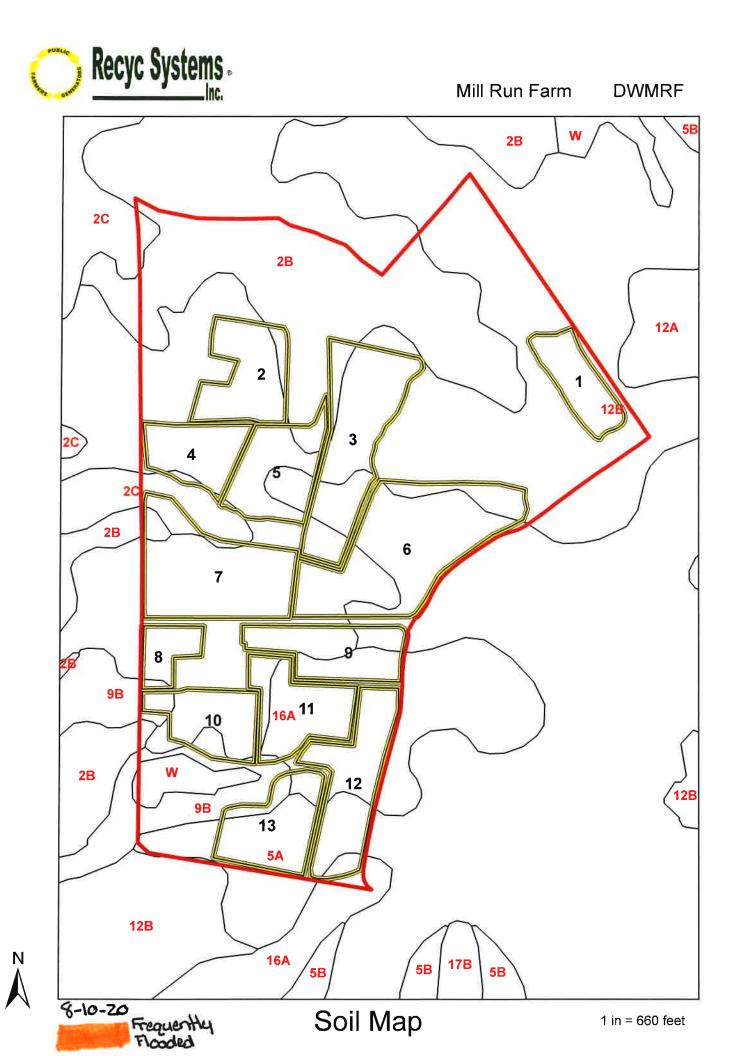
\$33,600

### **ADJOINING LANDOWNERS**

### Mill Run Farm

## **Dinwiddie County**

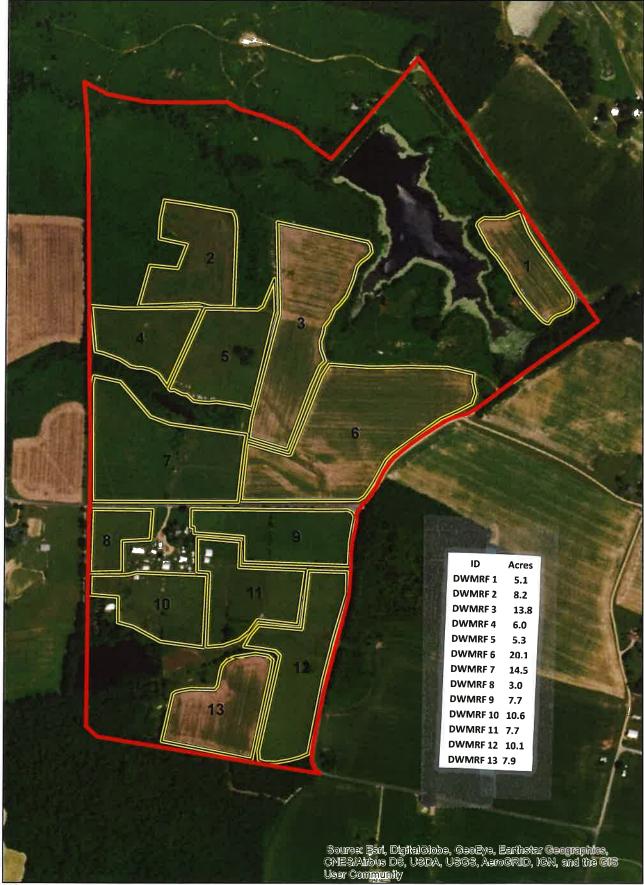
Тах Мар	Parcel #	Owner Name(s)
84	23	John Robert Fraser Trustee of John Robert Fraser Revocable
0.1	23	Trust et al
	24	John Robert Fraser Trustee of John Robert Fraser Revocable
	2.	Trust et al
	25	William Bunn Bain
	27	Preston C. II or Donna H. Bain et al
	28	William Bunn Bain
	29	Erin F. Bain
94	2	Henry D. Giffin
	3	Melvin Jones
		*
		0





Mill Run Farm

**DWMRF** 





8-10-20



#### Dinwiddie County, Virginia



Farm 3542

**Tract 8** 

2020 Program Year

Map Created June 03, 2020

#### **Common Land Unit**

Non-Cropland Cropland Tract Boundary

#### **Wetland Determination Identifiers**

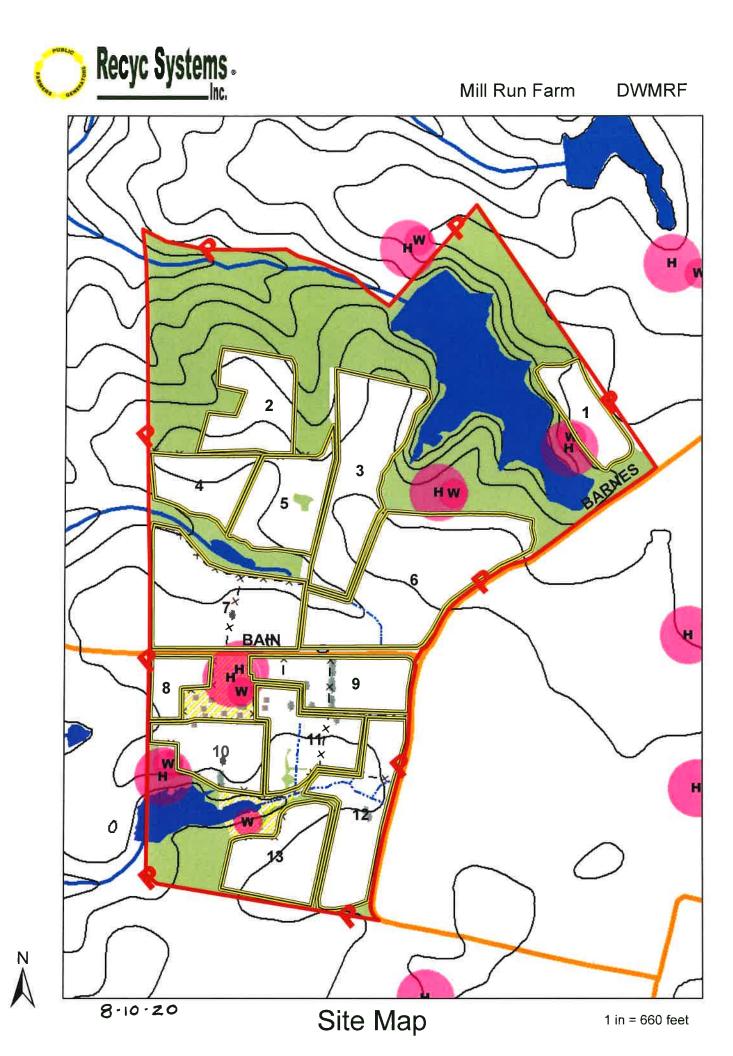
- Restricted Use Limited Restrictions
- Exempt from Conservation Compliance Provisions

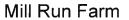
Tract Cropland Total: 138.50 acres

### **Legend For Site Plan**

Symbol	Feature	Minimum Setback
HW	House and Well	200 feet from occupied dwelling * 100 feet from water supply wells or springs
ws	Well or Spring	100 feet from water supply wells or springs
	Streams or Surface Water	35 feet with 35 foot vegetated buffer 100 feet without vegetated buffer
Ш	Wet Spot	is .
	Trees and Woods	•
	Private Drive	
R	Rock Area/Rock Outcrop	25 feet from rock outcrops 50 feet from limestone rock outcrops
<b>=</b>	Severely Eroded Spot	18 Inch minimum depth of soil
	Sink Hole	100 feet from open sinkholes 50 feet from closed sinkholes
	State Road	10 feet from side of roadway
	Fence / Field Boundary	
_P _ P_ P_	Property Line	100 feet from property line *
SL S	Slope	15% maximum
	Hashed out Area	No application

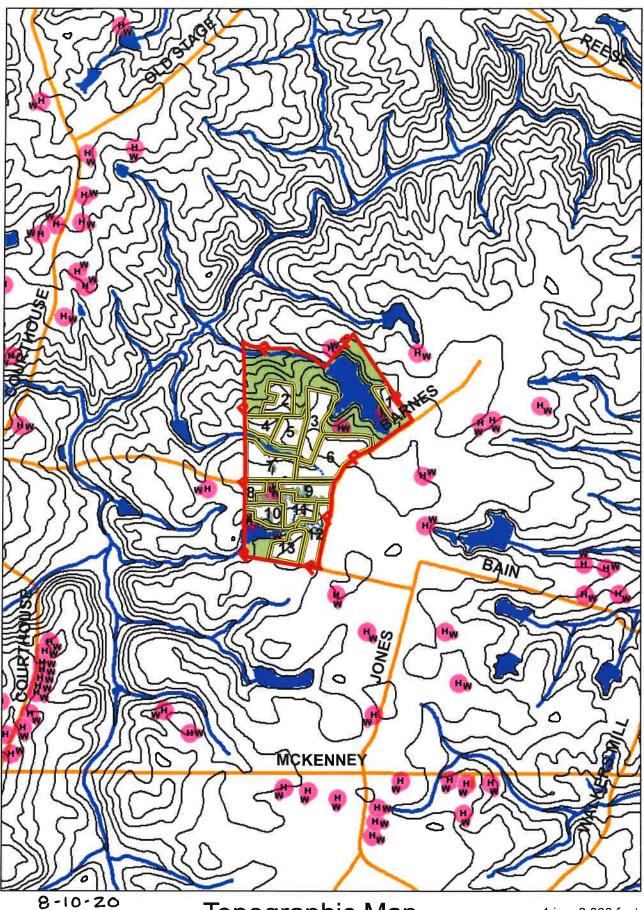
<sup>\*</sup>Buffer can be reduced or waived upon written consent from landowner.





**DWMRF** 





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Topographic Map

1 in = 2,000 feet